

Patent Application of

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for

MASSAGE AND TACTILE STIMULATION DEVICE

Background—Field of Invention

This invention relates to a new and improved massage and tactile stimulation device having predetermined prominent projections with or without friction areas, for manual control and operation.

Background—Description of Prior Art

Manual-massage-and-tactile-stimulation-has-been-performed-by-the-hand-for-years.

Hand held objects or paraphernalia for massage and tactile stimulation, manual or electric, have been invented to assist with the task.

Massage gloves having a receptacle or receptacles adapted to accommodate a substance or substances during the massage have been invented as shown in U.S. patent 1,161,719 to Norton. However, these gloves do not address massage to deeper tissues.

Thereafter, U.S. patent 1,885,572 to Wood shows a massage glove with transverse ribs or ridges on the finger tips and a series or multiplicity of massaging elements or vacuum cups in the palm of the hand. The massaging elements and vacuum cups effect a combined

friction and traction upon the patient's body. This glove relies heavily upon the palm for effective execution. As well, it does not address massage to deeper tissues due to lack of massaging elements prominence.

A massage device utilized for lather formation and softening a man's beard is shown in U.S. patent 1,438,485 to Goldberg. It can also be utilized to receive and retain soap. This device massages the cutaneous covering, at best, not addressing the deeper tissues or advanced manipulations.

Animal gloves for massage and grooming with a plurality of bristles on the palm or palm and fingers are described in U.S. patent Nos. 5,768,709 to Newkirk et al. and 5,682,837 to Courtney et al. An animal grooming glove with a plurality of rubber projections having an internal portion including a substantially rigid material is shown in U.S. patent 5,524,575 to Lennon. These devices, though suitable for animals, are not suitable for human massage.

A scalp massaging implement for the finger with a rubber fingertip covering and a plurality of flexible rubber tines is illustrated in U.S. patent 4,308,860 to Sanders et al. A finger or hand mounted brush with bristles or plurality of bumps or a combination is shown in U.S. patent 5,765,252 to Carr for effective cleaning and massage. An implement for massaging the cutaneous covering is illustrated in U.S. patent 4,249,521 to Gueret. While sports gloves having a plurality of friction elements for enhancing the grip, control, and improving skills have been invented including the basketball glove in U.S. patent 5,500,956 to Schulkin et al. The projections of these inventions lack the prominence and shape necessary for massage to deeper tissues and are suitable for the cutaneous covering, at best.

Hand apparel with cleaning instrumentalities are shown in U.S. patent Nos. 3,643,386 to Grzyll, 5,441,355 to Moore, 4,593,427 to Ortolivo, and 5,419,014 to Piantedosi. There is no disclosure of these gloves as a massaging device for humans.

Massage footwear having foot stimulating, dome-shaped, spaced massage bumps and nonspecific rounded projections with areas that are lightly stippled to prevent slippage is illustrated in U.S. patent 4,694,831 to Seltzer. However, this is utilized in footwear or as a sole insert having defined accupressure bumps. These bumps are arranged to affect at least 12 key meridians of body function. There is no disclosure for use as a hand covering or versatility of location for use on other areas of the body.

The aforementioned inventions do not address the need for deep pressure, concentrated point specific pressure, vigorous rubbing on the skin, or handling of the muscles to relieve muscle spasms, trigger points, or the like during massage. The masseur must utilize a considerable amount of muscle energy, along with force and pressure on their joints for the benefits of massage to be realized on some recipients.

Objects and Advantages

Sub A2 } Among the objects of this invention is to provide a new and improved massage and tactile stimulation device in the nature of a hand covering such as a mitt, mitten, or glove worn upon the hand of the user, masseur, or therapist. More specifically, a glove having prominent projections of at least 0.14 inches (3.5 mm) in height, to facilitate deep and point specific pressure on the recipient, being with or without friction areas. These instrumentalities, secured at effective working areas, provide for distinct and improved manipulations over the human hand.

The advantages of this invention as here outlined are best realized when all of its features and instrumentalities are combined in one and the same structure, but, useful devices may be produced embodying less than the whole.

Advantages include but are not restricted to:

- a) improved force and concentrated pressure on recipient due to prominence of projections;

- b) decreased direct force needed on joint's of manipulator's body to deliver improved manipulations to recipient;
- c) will stimulate deep pressure receptors in skin of desensitized limbs or parts of the body;
- d) enhances the tactile stimulation or massage of a layperson to a recipient without formal education of manual techniques.

Additional objects, advantages, and novel features of the invention will be set forth in part in the description which follows of the preferred embodiment, pointed out in the subjoined claims, and illustrated on the annexed drawing, wherein like parts are designated by the same reference throughout. Others will become apparent to those skilled in the art upon examination of this description or may be learned by practice of the invention.

Brief Description of the Drawings

Figure 1 shows the right palm view of the preferred embodiment of the glove.

Figure 2 shows a cross-sectional view taken along line 2-2 of Fig.1 illustrating use of a hemispherical projection.

Figure 3 shows an indented cone shape projection.

Figure 4 shows an elongated projection.

Figure 5 shows a canal shaped projection.

Figure 6 shows a second embodiment formed as a fist with the projection of Fig. 4 in place.

Reference Characters In Drawings

2 cross-section through fifth digit	18 cone shaped projection
10 glove of preferred embodiment	19 indentation
12 hemispherical projection on pad of digit(s)	20 back view of second embodiment in fist
14 elliptical friction area	22 elongated projection
16 circular friction area	24 canal shaped projection

F surface of recipient

Summary

This invention provides a massage and tactile stimulation device, comprising a flexible glove, having predetermined prominent projections with or without friction areas. Both instrumentalities may be of various shapes, predetermined sizes, colors, textures, and forms secured to the glove at effective working areas, in varied or distinct patterns.

Description

Sub A3 7 It will be obvious to those skilled in the art to which this invention appertains, that the same may be incorporated in several different constructions. It will be understood this device may be made in various sizes or different specific designs. It must be clearly understood that although each finger of the glove in Fig. 1 is provided with a predetermined prominent projection for deep pressure, only one of the fingers may be provided with a projection. If desired, only a single finger tip can be used for applying deep pressure.

Therefore, the accompanying drawing is submitted merely as showing the preferred embodiment of this device. Application can be made to either hand of the manipulator. The illustration is that of a right hand appliance.

Sub A4 7 Referring now more particularly to the drawing, illustrated is a device as comprising a glove 10. Glove 10 is made of any suitable resilient material of good quality such as lycra or spandex, being made by sewing or the like, in the preferred embodiment.

In the preferred embodiment, glove 10 has a predetermined prominent (FIG. 2) projection 12, illustrated as hemispherical. In a second embodiment, glove 20 (FIG. 6) has predetermined prominent projection 22 (FIGs. 4 and 6), illustrated as an elongated projection.

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same glove, as well. Both can be secured to the glove at various effective working areas to maximize function of device and assistance to the manipulator.

The material for making this device can be of any with stretching capabilities, but grossly maintains its shape. This device can be made as any type of hand covering. An alternative to a hand covering is a covering for the elbow or foot (both not shown), as these areas are used for imparting massage, as well. However, use on the hand is the preferred embodiment.

Furthermore, various changes and modifications may be made to the embodiments described without departing from the scope of the present invention defined in the appended claims.

Conclusion, Ramifications, and Scope of Invention

Thus the reader will see that the massage and stimulation device of this invention provides the manipulator with enhanced massage techniques and ease of use. In addition, it imparts to the recipient a multiplicity of improved manipulations due to the prominent projections of at least 0.14 inches (3.5mm) in height and friction areas.

The above description should not be construed as limitations on the scope of this invention, but rather as an exemplification of a preferred embodiment thereof. Many other variations are possible. For example, the glove can have a prominent projection of any predetermined size and shape on one digit only, such as the pad of the thumb. This device can appear as a functional hand covering that is used as a pouch with a prominent projection having the diameter of the central palm region. If desired, the glove can be manufactured without friction areas. The glove material can be textured for additional sensory input, particularly for desensitized limbs or areas of the body.

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An improvement can include a rubber-like glove with a breathing mechanism, to decrease moisture on the hand, made by molding or the like. The glove and its instrumentalities, can be made of a rubber-like material for sanitary use in a healthcare setting, increasing its use in settings with multiple clients.

Thus the scope of the invention should be determined not by the embodiment illustrated, but by the appended claims and their legal equivalents.